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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/992,582 | 11/16/2001 | Stephen M. Hitchen | 7216-1 | 8250 |
| 7590 | 04/04/2006 | | | |
| Steven M. Greenberg Esq CHRISTOPHER & WEISBERG PA 200 East Las Olas Boulevard Suite 2040 Fort Lauderdale, FL 33301 | | | EXAMINER WASSUM, LUKE S | |
| | | | ART UNIT 2167 | PAPER NUMBER |
| DATE MAILED: 04/04/2006 | | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|-----------------|----------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/992,582 | HITCHEN ET AL. |
| | Examiner | Art Unit |
| | Luke S. Wassum | 2167 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 January 2006.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 16 November 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The Applicants' amendment, filed 20 January 2006, has been received, entered into the record, and considered.
2. The amendment consisted of arguments only; no claims were amended. Claims 1-20 remain pending in the application.

The Invention

3. The claimed invention is a collaborative rights management system for distributing documents with digital rights management data appended, thus preserving the integrity of the documents by enforcing specific digital rights on a user-by-user basis.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Morinaga et al.** (U.S. Patent 5,724,578) in view of **McCurdy et al.** (U.S. Patent Application Publication 2002/0035697) in view of **Graham et al.** (U.S. Patent Application Publication 2002/0178271).

8. Regarding claim 1, **Morinaga et al.** teaches a collaborative file rights management method as claimed, comprising:

- a) identifying a file input/output (I/O) request to access a file, said file I/O request originating in an authoring application (see col. 4, lines 20-23, disclosing that all requests for files are received by the file transaction control unit);

- b) automatically extracting digital rights management data appended to said file (see disclosure of the file control block, col. 4, lines 32-61); and
- c) providing said file to said authoring application (see col. 4, lines 32-38; see also col. 7, lines 35-46).

Morinaga et al. does not explicitly teach a collaborative file rights management method including the step of managing access to said file in said authoring application based upon said extracted digital rights management data.

McCurdy et al., however, teaches a collaborative file rights management method including managing access to said file in said authoring application based upon said extracted digital rights management data (see paragraphs [0137] through [0140]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to perform the claimed intercepting, detecting and quashing steps in cooperation with an authoring application, since digital rights management dictates that users with no rights to individual parts of a document be prohibited from copying not only an entire document, but the individual protected parts (see paragraphs [0137] and [0138]).

Neither **Morinaga et al.** nor **McCurdy et al.** explicitly reaches suppressing said file I/O request.

Graham et al., however, teaches a system which provides selective access and usage management to files available from one or more file systems or sources (see paragraph [0011]) through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to intercept and suppress file I/O requests in order to implement usage management, since this allows clients to access and utilize files without changing the process for accessing files in any way from the user's perspective, i.e., users continue to use Network Neighborhood or content management software, and other standard applications to access remote storage drives and directories (see paragraphs [0138] and [0139]).

9. Regarding claim 9, **Morinaga et al.** teaches a collaborative file rights management method as claimed, comprising:

- a) identifying a file input/output (I/O) request to save a file, said file I/O request originating in an authoring application (see col. 4, lines 20-23, disclosing that all requests for files are received by the file transaction control unit);
- b) appending digital rights management to said file (see disclosure of the file control block,
 - col. 4, lines 32-61); and
- c) storing said file in fixed storage (see col. 4, lines 44-61; see also col. 7, lines 61-65).

Morinaga et al. does not explicitly teach a collaborative file rights management method including the step of automatically encrypting the file.

McCurdy et al., however, teaches a collaborative file rights management method including the step of automatically encrypting the file (see paragraph [0016]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to automatically encrypt a saved file, since encryption is a well known and widely used technique for protecting data and/or files from access by unauthorized users.

Neither **Morinaga et al.** nor **McCurdy et al.** explicitly teaches suppressing said file I/O request.

Graham et al., however, teaches a system which provides selective access and usage management to files available from one or more file systems or sources (see paragraph [0011]) through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to intercept and suppress file I/O requests in order to implement usage management, since this allows

clients to access and utilize files without changing the process for accessing files in any way from the user's perspective, i.e., users continue to use Network Neighborhood or content management software, and other standard applications to access remote storage drives and directories (see paragraphs [0138] and [0139]).

10. Regarding claim 12, **Morinaga et al.** teaches a collaborative file rights management system as claimed, comprising:

- a) a file security management application configured to intercept operating system messages directed to an authoring application (see col. 4, lines 20-23, disclosing that all requests for files are received by the file transaction control unit);
- b) a file security filter driver configured to identify file input/output (I/O) requests received in a kernel-layer system manager to open a file in said authoring application (see col. 4, lines 32-38; see also col. 7, lines 35-46);
- c) said file security driver providing said file to said authoring application (see col. 4, lines 32-38; see also col. 7, lines 35-46);
- d) said file security management application extracting digital rights management data appended to said file, detecting among intercepted operating system messages operating system messages directed to authoring applications which can be limited according to digital rights specified in said extracted digital rights management data and quashing said detected events where said digital rights management data prohibits

execution of said authoring application operations (see disclosure of the file control block, col. 4, lines 32-61; see also col. 8, lines 10-16).

Morinaga et al. does not explicitly teach a collaborative file rights management system including the automatic encryption and decryption of the file.

McCurdy et al., however, teaches a collaborative file rights management method further comprising automatically encrypting said file (see paragraph [0016]) and decrypting said file (see paragraph [0205]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to automatically decrypt a retrieved file, since encryption/decryption is a well known and widely used technique for protecting data and/or files from access by unauthorized users, and decryption is necessary for an authorized user to access an encrypted file.

Neither **Morinaga et al.** nor **McCurdy et al.** explicitly teaches suppressing said file I/O request.

Graham et al., however, teaches a system which provides selective access and usage management to files available from one or more file systems or sources (see paragraph [0011]) through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds

additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to intercept and suppress file I/O requests in order to implement usage management, since this allows clients to access and utilize files without changing the process for accessing files in any way from the user's perspective, i.e., users continue to use Network Neighborhood or content management software, and other standard applications to access remote storage drives and directories (see paragraphs [0138] and [0139]).

11. Regarding claim 13, **Morinaga et al.** teaches a machine readable storage having stored thereon a computer program for managing digital rights in a collaborative file, said computer program comprising a routine set of instructions for causing the machine to perform the steps of:

- a) identifying a file input/output (I/O) request to access a file, said file I/O request originating in an authoring application (see col. 4, lines 20-23, disclosing that all requests for files are received by the file transaction control unit);
- b) automatically extracting digital rights management data appended to said file (see disclosure of the file control block, col. 4, lines 32-61); and
- c) providing said file to said authoring application (see col. 4, lines 32-38; see also col. 7, lines 35-46).

Morinaga et al. does not explicitly teach a computer program for managing digital rights including the step of managing access to said file in said authoring application based upon said extracted digital rights management data.

McCurdy et al., however, teaches a computer program for managing digital rights including managing access to said file in said authoring application based upon said extracted digital rights management data (see paragraphs [0137] through [0140]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to perform the claimed intercepting, detecting and quashing steps in cooperation with an authoring application, since digital rights management dictates that users with no rights to individual parts of a document be prohibited from copying not only an entire document, but the individual protected parts (see paragraphs [0137] and [0138]).

Neither **Morinaga et al.** nor **McCurdy et al.** explicitly reaches suppressing said file I/O request.

Graham et al., however, teaches a system which provides selective access and usage management to files available from one or more file systems or sources (see paragraph [0011]) through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to intercept and suppress file I/O requests in order to implement usage management, since this allows clients to access and utilize files without changing the process for accessing files in any way from the user's perspective, i.e., users continue to use Network Neighborhood or content management software, and other standard applications to access remote storage drives and directories (see paragraphs [0138] and [0139]).

12. Regarding claims 2 and 14, **McCurdy et al.**, however, teaches a collaborative file rights management method and computer program for managing digital rights further comprising decrypting said file (see paragraph [0205]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to automatically decrypt a retrieved file, since encryption/decryption is a well known and widely used technique for protecting data and/or files from access by unauthorized users, and decryption is necessary for an authorized user to access an encrypted file.

13. Regarding claims 3 and 15, **Morinaga et al.** additionally teaches a collaborative file rights management method and computer program for managing digital rights wherein said extracting step further comprises:

- a) determining environmental data associated with said I/O request, said environmental data comprising at least one of a requestor's identity, a requestor's class, a requestor's

computing domain, a requestor's location, a password, a time of day, and a date (see registration of the requestor's identity, col. 7, lines 16-21; see also col. 7, lines 35-46); and

extracting an access policy appended to said file (see file control block in Figure 3A, including access rights based upon the specific requestor's identity).

14. Regarding claims 4 and 16, **Morinaga et al.** additionally teaches a collaborative file rights management method and computer program for managing digital rights wherein said providing step further comprises:

- a) comparing said access policy to at least a portion of said environmental data (see col. 4, lines 32-62; see also col. 7, lines 35-46);
- b) authenticating said file I/O request based upon said comparison (see col. 4, lines 32-62; see also col. 7, lines 35-46); and
- c) providing said file to said authoring application only if said I/O request has been authenticated (see col. 4, lines 32-62; see also col. 7, lines 35-46).

15. Regarding claims 5, 10 and 17, **Morinaga et al.** additionally teaches a collaborative file rights management method and computer program for managing digital rights wherein said suppressing step further comprises:

- a) posting a responsive message to said authoring application (see col. 8, lines 10-16); and
- b) intercepting an operating system event in said authoring application, said operating system event indicating receipt of said responsive message (see col. 8, lines 10-16).

Graham et al. additionally teaches quashing further processing of said intercepted operating system event (see disclosure that file I/O requests are intercepted through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

16. Regarding claims 6, 11 and 18, **Morinaga et al.** additionally teaches a collaborative file rights management method and computer program for managing digital rights wherein said identifying step comprises:

- a) monitoring kernel-level file I/O requests contained in I/O request packets processed in a file system manager (see col. 4, lines 20-28); and
- b) detecting said file I/O request to access said file in one of said I/O request packets (see col. 4, lines 20-28).

17. Regarding claims 7, 8, 19 and 20, **Morinaga et al.** teaches a collaborative file rights management method and computer program for managing digital rights substantially as claimed.

Morinaga et al. does not explicitly teach a collaborative file rights management method and computer program for managing digital rights wherein said management step comprises the claimed intercepting, detecting and quashing steps in cooperation with an authoring application wherein the protected operations are selected from clipboard operations, printing operations, file saving operations and file editing operations.

McCurdy et al., however, teaches a collaborative file rights management method and computer program for managing digital rights wherein said management step comprises:

- a) intercepting operating system messages in said authoring application (see paragraphs [0137] through [0140]); and
- b) detecting among said intercepted operating system messages, operating system messages directed to authoring application operations which can be limited according to digital rights specified in said extracted digital rights management data, wherein the protected operations are selected from clipboard operations, printing operations, file saving operations and file editing operations (see paragraphs [0137] through [0140]).

Graham et al. additionally teaches quashing further processing of said intercepted operating system event (see disclosure that file I/O requests are intercepted through the use of a filter driver, wherein a request dispatched to the file system is intercepted and suppressed by the filter driver, and wherein the filter driver interfaces with the file system and adds additional functionality beyond that offered by the existing file system (see paragraphs [0140] and [0141]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to perform the claimed intercepting, detecting and quashing steps in cooperation with an authoring application, since digital rights management dictates that users with no rights to individual parts of a document be prohibited from copying not only an entire document, but the individual protected parts (see paragraphs [0137] and [0138]).

Response to Arguments

18. Applicant's arguments filed 20 January 2006 have been fully considered but they are not persuasive.

19. Regarding the Applicants' argument that the **Graham et al.** reference fails to teach the claimed suppression of a file system request, the examiner respectfully disagrees.

In paragraphs [0021] and [0022], the **Graham et al.** reference discloses that the proxy system 'mimics the structure and presentation of the content source', and that when a file is requested by an end-user of a client device, the request is received by the proxy system which selectively provides the requested file as a function of information the proxy system obtains from the authentication system and policy system. The reference further teaches that if access to the file is granted, the proxy system provides the file. These aspects are elaborated upon in paragraphs [0142] and [0143].

This disclosure makes plain that the file requests that are intercepted by the filter driver are then modified (in accordance with authentication and policy) and the request is then issued by the proxy system itself, which then returns the file (or not) to the requesting end-user on the client device. This procedure is analogous to that claimed by the Applicants.

Conclusion

20. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

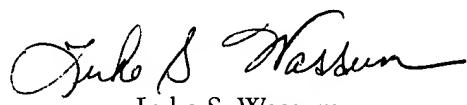
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luke S. Wassum whose telephone number is 571-272-4119. The examiner can normally be reached on Monday-Friday 8:30-5:30, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

In addition, INFORMAL or DRAFT communications may be faxed directly to the examiner at 571-273-4119. Such communications must be clearly marked as INFORMAL, DRAFT or UNOFFICIAL.

Customer Service for Tech Center 2100 can be reached during regular business hours at (571) 272-2100, or fax (571) 273-2100.

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